

PATENT COOPERATION TREATY

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REC'D 24 JUN 2004

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

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(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference BP106249/TKO | FOR FURTHER ACTION See Form PCT/IPEA/416 | |
| International application No. PCT/FI 2003/000234 | International filing date (day/month/year) 27.03.2003 | Priority date (day/month/year) 28.03.2002 |
| International Patent Classification (IPC) or national classification and IPC H04N 7/00 | | |
| Applicant Nokia Corporation et al | | |

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| 1. | This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. |
| 2. | This REPORT consists of a total of <u>4</u> sheets, including this cover sheet. |
| 3. | This report is also accompanied by ANNEXES, comprising: <div style="margin-left: 20px;"> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>6</u> sheets, as follows:</p> <div style="margin-left: 20px;"> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions)</p> <p><input type="checkbox"/> sheets which supersede the previous sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> </div> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> </div> |

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| 4. | This report contains indications relating to the following items: <div style="margin-left: 20px;"> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p> </div> |
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| Date of submission of the demand 28.08.2003 | Date of completion of this report 26.05.2004 |
| Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88 | Authorized officer Catharina Karlsson/BS Telephone No. +46 8 782 25 00 |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000234

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-17 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* 18-23 received by this Authority on 12.05.2004
- pages* _____ received by this Authority on _____
- ☒ the drawings:
- pages 1-9 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FI 2003/000234

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|-------------|-----|
| Novelty (N) | Claims | <u>1-41</u> | YES |
| | Claims | _____ | NO |
| Inventive step (IS) | Claims | <u>1-41</u> | YES |
| | Claims | _____ | NO |
| Industrial applicability (IA) | Claims | <u>1-41</u> | YES |
| | Claims | _____ | NO |

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: EP 0917355 A1

D2: EP 1001631 A1

D3: WO 9823093 A1

D4: WO 0002380 A2

D5: ETSI EN 300 468 VI.4.1.(2002-11) Digital Video Broadcasting (DVB); Specification for Service Information in DVB systems, pages 1-25.

D1 discloses a method of transmission of MPEG-2 transport streams, including program specific information/service information tables and service packets having packet identifiers, to a home network. The received MPEG-2 transport stream/ are filtered to exclude program specific information/service information. The received MPEG-2 transport streams are filtered to include only service packets carrying set services that should be distributed on the network.

D2 relates to a method of transmission of digital information in digital television system by transmitting at least one other table comprising a list of bouquet identity values associated with information identifying at least one transport stream

D3 discloses modifying tables of data included in an input digital stream of encoded data.

D4 relates to program guide system for distributing local advertisements.

D5 is a specification for Service Information in a DVB system.
.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: Box V

The claimed invention

The present invention relates to a digital video broadcasting (DVB) system, especially Service Information data, which is a part of DVB bitstreams. A service information table splits into several sub-tables. Each sub-table identifies a certain transport stream. There are transport streams, which are available at different locations.

When announcing a transport stream that is available in the location (cell), it is checked whether there are any adjacent transport streams. If there are any adjacent transport streams, the sub-tables of adjacent transport streams have to be obtained. Then a mother table is established. The mother table maintains the sub-table of the certain transport stream and sub-tables of the adjacent transport streams. Optionally, if there is no adjacent transport stream, no mother table is required.

The present invention solves the problem that useless and unnecessary service information about transport streams not available at location has to be broadcasted. Consequently, less bandwidth is required. In addition, the invention solves the problem when an End User Terminal, a receiver of the transport streams, roams into different cells in the network.

None of the cited documents solve the above problem and the invention defined in claims 1-41 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed invention. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-41 is novel and is considered to involve an inventive step. The invention is industrially applicable.